## BIASED H<sub>2</sub> ETCH PROCESS IN DEPOSITION-ETCH-DEPOSITION GAP FILL

## **ABSTRACT**

Biased plasma etch processes incorporating H<sub>2</sub> etch chemistries. In particular, high density plasma chemical vapor etch-enhanced (deposition-etch-deposition) gap fill processes incorporating etch chemistries which incorporate hydrogen as the etchant that can effectively fill high aspect ratio gaps while reducing or eliminating dielectric contamination by etchant chemical species.